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ENGINEERING REPORT

K254BZ, Houston, TX, Minor Change Application

ENGINEERING STATEMENT

All contour non-overlap protection requirements are met with the exception of K252FR, Houston, TX 252D and KODA, Houston, TX 256C. Protection to K252FR and KODA is discussed below.

PROTECTION TO K252FR and KODA

K252FR (252D) and KODA (256C) are second adjacent-channel stations to the proposed channel 254D facility. The 60 dBu F50,50 service contour of these stations extend well beyond the proposed 254D transmitter site. Using the well-established *Living Way Ministries* Methodology, no actual interference to any population is predicted to exist to K252FR or KODA. Note that a rule waiver of Section 74.1204 for this second/third adjacent-channel protection using the well-established *Living Way Ministries* Methodology is respectfully requested if such a rule waiver is deemed necessary for protection to any station.

The F50,50 signal strength from KODA and K252FR at the proposed 254D transmitter site is greater than 100 dBu (the “desired” signal). The second/third adjacent-channel protection of Section 74.1204 is an undesired-to-desired (“U/D”) dB signal strength ratio of 40:1. Therefore, predicted interference to K252FR and KODA from the proposed 254D facility is a signal of greater than or equal to 140 dBu.

The 140 dBu free space loss signal from the proposed antenna extends less than 12 meters; and the potential interfering contour (using the free space field determination) does not exist at any point at ground level. (The clearance is at least 530 meters.) Therefore, pursuant to Section 74.1204(d) of the FCC Rules, K252FR and KODA are adequately protected by the proposed facility.